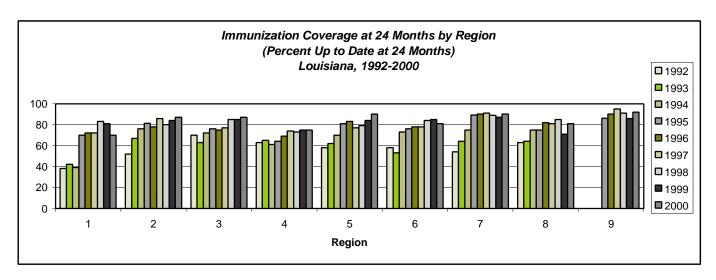
III. HEALTH ASSESSMENT PROGRAMS

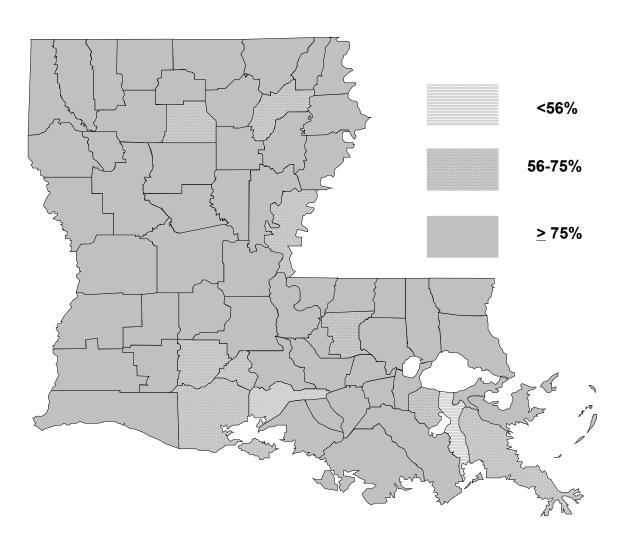
A. IMMUNIZATION COVERAGE

The IMMUNIZATION PROGRAM of the OFFICE OF PUBLIC HEALTH conducts periodic assessments to determine the immunization coverage rates throughout the state. As the graph below displays, rates of coverage have been steadily increasing since 1992, though there have been variations between the years.





Percent of Immunization Coverage at 24 Months of Age Among Children Served in Public Clinics





| Immunizations: Percent Up-To-Date at Age 24 Months* Louisiana, 2001-2002 | |
|--|------------------------|
| Clinic | %UTD 2000-2001 Results |
| Region I | |
| Orleans-Edna Pilsbury | 96.0 |
| Orleans-Mandeville Detiege | 53.0 |
| Orleans-Mary Buck | 90.0 |
| Orleans-Katherine Benson | 82.0 |
| Orleans-Helen Levy | 78.0 |
| Orleans-St. Bernard Gentilly | 74.0 |
| Orleans-Ida Hymel | 80.0 |
| St. Bernard | 77.0 |
| Jefferson-Marrero | 74.0 |
| Plaquemines | 77.0 |
| Jefferson-Metairie | 76.0 |
| Region II | |
| Ascension | 84.0 |
| West Baton Rouge | 85.0 |
| West Feliciana | 88.0 |
| Iberville | 83.0 |
| East Feliciana-Clinton | 86.0 |
| Pointe Coupee | 84.0 |
| E. Baton Rouge | 84.0 |
| Region III | |
| St. James | 93.0 |
| Lafourche-Galliano | 95.0 |
| Lafourche-Thibodaux | 90.0 |
| Terrebonne | 97.0 |
| St. Mary | 95.0 |
| St. John | 92.0 |
| Assumption | 91.0 |
| St. Charles | 100.0 |
| *Up-to-date includes 4 DTAP, 3 OPV or IPV, and | 1 MMD |

*Up-to-date includes 4 DTAP, 3 OPV or IPV, and 1 MMR



| Immunizations: Percent Up-To-Date at Age 24 Months* Louisiana, 2001-2002 | |
|--|------|
| | |
| Region IV | |
| Evangeline | 84.0 |
| St. Landry | 94.0 |
| St. Martin | 92.0 |
| Acadia | 84.0 |
| Region IV (continued) | |
| Vermilion | 96.0 |
| Lafayette | 83.0 |
| Iberia | 79.0 |
| Region V | |
| Allen | 83.0 |
| Calcasieu-Sulphur | 83.0 |
| Calcasieu-Lake Charles | 82.0 |
| Jefferson Davis | 82.0 |
| Beauregard | 83.0 |
| Cameron | 95.0 |
| Region VI | |
| Catahoula | 87.0 |
| LaSalle | 91.0 |
| Rapides | 90.0 |
| Grant | 88.0 |
| Winn | 85.0 |
| Vernon | 84.0 |
| Concordia | 88.0 |
| Avoyelles | 93.0 |

*Up-to-date includes 4 DTAP, 3 OPV or IPV, and 1 MMR



| Immunizations: Percent Up-To-Date at Age 24 Months* Louisiana, 2001-2002 | |
|--|------------------------|
| Clinic | %UTD 2000-2001 Results |
| Region VII | |
| Red River | 85.0 |
| Claiborne | 87.0 |
| Webster-Springhill | 91.0 |
| DeSoto | 88.0 |
| Natchitoches | 80.0 |
| Bienville | 79.0 |
| Sabine | 87.0 |
| Webster-Minden | 81.0 |
| Bossier-Bossier City | 87.0 |
| Caddo | 72.0 |
| Region VIII | |
| Morehouse-Basdrop | 90.0 |
| Franklin-Winnsboro | 93.0 |
| West Carroll-Oak Grove | 92.0 |
| Ouachita-Monroe | 87.0 |
| Caldwell | 96.0 |
| Tensas-St. Joseph | 95.0 |
| Lincoln | 88.0 |
| Jackson-Jonesboro | 97.0 |
| East Carroll | 97.0 |
| Union | 66.0 |
| Richland-Rayville | 90.0 |
| Ouachita-West Monroe | 89.0 |
| Madison | 96.0 |
| Region IX | |
| St. Helena | 84.0 |
| Washington-Franklinton | 85.0 |
| Washington-Bogalusa | 70.0 |
| Tangipahoa | 80.0 |
| St. Tammany | 77.0 |
| Livingston | 85.0 |

*Up-to-date includes 4 DTAP, 3 OPV or IPV, and 1 MMR



B. INFECTIOUS DISEASE SURVEILLANCE

Disease Surveillance

Surveillance of infectious diseases, chronic diseases, and injuries is essential to understanding the health status of the population and planning effective prevention programs. The history of reporting and tracking of diseases that pose a risk to public health in the United States dates back to more than a century ago. Fifty years ago, morbidity statistics published each week were accompanied by a statement: "No health department, state or local, can effectively prevent or control diseases without the knowledge of when, where, and under what condition cases are occurring." Today, disease surveillance remains the primary tool for the gathering of information essential to controlling disease spread in the population.

Achievement of the Centers for Disease Control, Healthy People 2010 Objectives depends in part on our ability to monitor and compare progress toward the objectives at the federal, state, and local levels. Infectious disease surveillance activities are a primary function of the programs within the Department of Health and Hospitals (DHH), Office of Public Health (OPH). Many OPH programs exist to conduct disease surveillance for the state of Louisiana. A sampling of these programs includes the Infectious Disease Epidemiology Program, the Sexually Transmitted Diseases Control Program, the Tuberculosis Control Program, the HIV/AIDS Program, and the Immunizations Program.

Disease surveillance involves the collection of pertinent data, the tabulation and evaluation of the data, and the dissemination of the information to all who need to know. This process is a very important aspect of public health because its purpose is the reduction of morbidity. The immediate use of surveillance is for disease control; the long-term use is to assess trends and patterns in morbidity.

Surveillance also facilitates epidemiologic and laboratory research, both by providing cases for more detailed investigation or case-control studies, and by directing which research avenues are most important. Reports of unusual clusters of diseases are often followed by an epidemiological investigation to identify and remove any common source exposure or to reduce other associated risks of transmission.

Notifiable Diseases

Reporting of notifiable diseases to the health department is the backbone of disease surveillance in Louisiana and nationwide. The Sanitary Code, State of Louisiana, Chapter II, entitled "The Control of Diseases," charges the BOARD OF HEALTH to promulgate: a list of diseases that are required to be reported, who is responsible for reporting those diseases, what information is required for each case of disease reported, what manner of reporting is needed, and to whom the information is reported. Reporting of cases of communicable diseases is important in the planning and evaluation of disease prevention and control programs, in the assurance of appropriate medical therapy, and in the detection of



common-source outbreaks. Surveillance data gathered through the reporting of notifiable diseases are used to document disease transmission, quantify morbidity and estimate trends, and identify risk factors for disease acquisition.

The HEALTH DEPARTMENT routinely follows up selected disease cases, either directly or through the individual's physician or other health care provider. Tracking and follow-up is done to ensure initiation of appropriate therapy for the individual and prophylactic therapy for contacts of persons with the infectious condition. All reports are confidential. Confidential disease reporting has been an essential element in monitoring and maintaining the health of the public in Louisiana. Through participation in disease-reporting, physicians and other health care providers are integral to ensuring that public health resources are used most effectively.

Mandatory reporting is required for a number of infectious diseases, including sexually transmitted diseases, HIV/AIDS, tuberculosis, mumps, and many others. The description of surveillance procedures for measles and rubella described later in this chapter is typical of the procedures followed for all reportable diseases.

Bioterrorism Surveillance

The Infectious Disease Epidemiology Program has developed a syndromic surveillance system to detect bioterrorism events. It is a reporting system for emergency departments to identify disease syndromes associated with bioterrorism agents.

Early detection of a bioterrorism event is considered essential. Most diseases caused by a bioterrorism agent are rapidly fatal, but may be treatable in the early stages or even preventable with timely administration of antibiotics, vaccination or antisera. If the disease is transmissible from person to person, early intervention is the best chance to prevent the spread of the disease.

This syndromic surveillance is a web-based reporting system for emergency departments. A bioterrorist attack may not be obvious. The first responders will be health care providers, not police officers or firefighters. Usually it is the observant physician, nurse, laboratory technician, veterinarian, infection control practitioner or emergency medical service technician who first recognizes an unusual illness, cluster of illnesses or an increase in requests for service.

Infectious Disease Outbreak Investigations

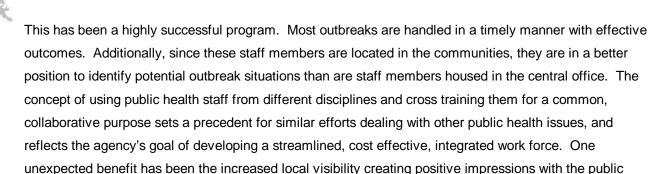
Infectious diseases are transmitted to others by a variety of methods: human to human via oral/fecal route (ingestion of the organism), blood exposure, respiratory route and direct person-to-person contact; vectors such as mosquitoes and ticks; and animal to human (zoonotic). In Louisiana, outbreaks have occurred from a wide variety of infectious diseases including hepatitis A, salmonella, shigella, Norwalk

virus, clostridium, campylobacter, pertussis, measles and others. The most compelling reason to investigate a recognized or suspected outbreak of disease is that exposure to the source(s) of infection may be continuing; by identifying and eliminating the source of infection, OPH can prevent additional cases. For example, if cans of mushrooms containing botulinum toxin are still on store shelves or in homes or restaurants, their recall and destruction can prevent further cases of botulism. Another reason for investigating outbreaks is that the results of the investigation may lead to recommendations or strategies for preventing similar future outbreaks. Other reasons for investigating outbreaks are the opportunity to describe new diseases and learn more about known diseases; evaluate existing prevention strategies, e.g., vaccines; teach epidemiology; and address public health concern about the outbreak. The effectiveness of the investigation is in large part determined by how quickly and thoroughly investigative activities are initiated. Historically, all infectious diseases outbreak investigations were initiated and managed through the Office of Public Health's Infectious Disease Epidemiology Program. Frequently, the investigations were hampered by misinformation, inappropriate specimen collection, and/or a lack of complete data. This made it difficult to determine the source of the outbreak and certainly impacted on the timeliness of intervention for disease control measures.

Several years ago, the INFECTIOUS DISEASE EPIDEMIOLOGY PROGRAM began a statewide intensive training of selected public health field staff that would comprise a Regional Rapid Response Team. These individuals were trained in basic epidemiologic principles, outbreak investigation methodology, computer analysis and interpretation of data, presentation of results, and selection of the appropriate disease control methods. Each of the nine public health regional teams have several team members - usually a nurse, sanitarian, epidemiologist, and disease intervention specialist. Each team member brings a unique set of skills/knowledge that is very important in conducting outbreak investigations. One of these individuals is selected as the Regional Rapid Response Team Coordinator for their region. This individual collaborates and coordinates all investigative activities through the INFECTIOUS DISEASE EPIDEMIOLOGY PROGRAM's Rapid Response Team. Initial telephone conferences are held and information is assessed. Activities are coordinated and supervised by the INFECTIOUS DISEASE EPIDEMIOLOGY PROGRAM, and guidance and assistance are provided as needed. The Regional Rapid Response Team members conduct most of the field activities, and both the INFECTIOUS DISEASE EPIDEMIOLOGY PROGRAM and the regional teams analyze the data. Recommendations are provided and guidance given for instituting appropriate disease control measures.

Outbreak investigations, an important and challenging component of epidemiology and public health, can help identify the source of ongoing outbreaks and prevent additional cases. Even when an outbreak is over, a thorough epidemiologic and environmental investigation often can increase our knowledge of a given disease and prevent future outbreaks. Outbreak investigations also provide epidemiologic training and foster cooperation between the clinical and public health communities.

and the media.



Surveillance for Measles and Rubella (German Measles)

All health care providers are required to immediately report suspected cases of measles and rubella by phone to their local public health units. When a possible case is reported, local and statewide public health personnel are mobilized immediately to evaluate the case and to establish a rapid control effort in order to prevent the spread of the illness. All contacts are interviewed by phone or in person, and children and adults without adequate immunization are immediately vaccinated.

These diseases are highly infectious and spread rapidly. One out of every ten measles cases requires hospitalization and one out of every thousand dies. Women who are infected with rubella during pregnancy have a high likelihood of having babies with severe disabilities. Women of childbearing age are encouraged to receive two doses of MMR vaccine (at least one month apart) at least three months prior to becoming pregnant.

A measles outbreak was identified in Louisiana in 1995, with 17 cases identified before disease spread was stopped. The outbreak lasted 37 days. Control of the outbreak required the examination of 35 suspected cases, a total of 3,252 phone calls, the immunization of 2,527 individuals, and active investigations at 28 sites (including day care centers, hospitals, and physicians' offices).

Selected 2000 Results of Infectious Disease Surveillance

- Forty-eight percent of salmonellosis cases occurred in the 0 4 year age group.
- Shigellosis cases increased by 33% in 2000. Children under the age of 10 accounted for 59% of the cases.
- Of the reported Vibrio cases with known exposures, 15 cases had contact with saltwater or raw seafood drippings while 19 cases reported seafood consumption prior to onset of illness.
- A total of four deaths occurred among V. vulnificus cases of which one death was associated with raw oyster consumption. The most frequently underlying conditions among V. vulnificus cases were liver disease, alcoholism, heart disease, and diabetes.

- Three cases of *Vibrio Cholera 01, toxigenic* were reported in 2000. The cases occurred among two white males and one white female between the ages of 20 and 64 years. Two of the three cases resulted from shellfish consumption. All cases survived.
- The state rate of 2.5 per 100,000 for hepatitis A is only about half that of the national rate of 4.9/100,000.
- The case rate of hepatitis C in Louisiana is 10 times higher than the national rate (10.6 versus 1.2 per 100,000) for the Year 2000.
- The total number of cases of early syphilis (primary, secondary, and early latent syphilis) is consistently declining, from 5,373 cases in 1993, to 441 cases in 2000.
- The Louisiana incidence rate for primary and secondary syphilis for 2000 was 5.0 per 100,000 people, and the national rate was 2.5 per 100,000.
- The total number of gonorrhea cases reported has been slightly increasing from year to year. In 1995 there were 10,761 cases reported versus 13,265 in 2000.
- The Louisiana incidence rate of gonorrhea in 2000 was 314 per 100,000 population, and the national rate was 133.2.
- In 2000, Louisiana ranked 10th highest in state AIDS cases rates, and both the metro New Orleans area and the metro Baton Rouge area ranked among the 20 highest in AIDS case rates for large cities in the nation.
- At the end of 2000, 12,078 persons where known to be living with HIV/AIDS in Louisiana, of which 5,942 (47%) had been diagnosed with AIDS.
- In 2000 alone, 1,130 new HIV/AIDS cases were detected in Louisiana. New cases of HIV/AIDS were detected in 55 of Louisiana's 64 parishes.
- There were no lab-confirmed cases of Eastern Equine Encephalitis (EEE) in humans and five lab-confirmed cases in horses in 2000.

Reports

The bimonthly *Louisiana Morbidity Report* and the *Epidemiology Annual Report* are published by the OFFICE OF PUBLIC HEALTH, INFECTIOUS EPIDEMIOLOGY PROGRAM. Both publications present information and statistics describing the status of reportable diseases in Louisiana.

C. SEXUALLY TRANSMITTED DISEASE (STD) AND HIV/AIDS SURVEILLANCE

Contracting a sexually transmitted disease can have serious consequences. For example, advanced (tertiary) syphilis can produce neurological, cardiovascular, and other terminal disorders, pelvic inflammatory disease, infertility, ectopic pregnancy, blindness, cancer, fetal and infant death, and birth defects and mental retardation to children born to infected mothers.



The DEPARTMENT OF HEALTH AND HOSPITALS, through the OFFICE OF PUBLIC HEALTH'S STD CONTROL PROGRAM and the HIV/AIDS PROGRAM, conducts surveillance to determine the incidence and prevalence of STDs and HIV/AIDS, monitors STD and HIV/AIDS trends, collects data on the location and referral of persons with or suspected of having a STD for examination and early treatment, and conducts partner notification to limit the spread of the diseases.

2000 National Rankings

- Nationally, Louisiana has a high ranking among the 50 states with regard to rates of sexually transmitted diseases (STDs) and HIV/AIDS.
- Primary and secondary syphilis rates in Louisiana ranked 3rd highest in 1998 and 1999, and 8th highest in 2000.
- Gonorrhea rates ranked 4th highest in the nation in 1998, 3rd highest in 1999 and 2nd highest in 2000
- Louisiana ranked 10th highest in 2000 among state with the highest AIDS rates. Among United States metropolitan areas, Baton Rouge ranked 19th highest and New Orleans ranked 17th.

2000 and 2001 Disease Statistics

Please refer to the STDs and HIV/AIDS sections in "Chapter II: Morbidity."

Reports

The STD Control Program and the HIV/AIDS Program maintain program databases, and generate specific reports and analyses by cause, location, and demographic factors for individuals, communities, and agencies. The HIV/AIDS Program also publishes the *HIV/AIDS Annual Report*, monthly reports and nine annual regional reports which are available to the public.

D. TUBERCULOSIS (TB) SURVEILLANCE

The Louisiana Office of Public Health TB Control Program conducts active surveillance for tuberculosis in the state. Regional staff interact with area physicians, hospitals, and laboratories in the course of their duties. All known or suspected cases of tuberculosis are investigated to assure that transmission of tuberculosis is contained. Currently, TB Control in Louisiana is working with CDC to enhance surveillance activities. Improved methodology is being implemented to facilitate reporting and tracking.

2000-2001 Disease Statistics

Please refer to the Tuberculosis section in "Chapter II: Morbidity."



E. ALCOHOL & DRUG ABUSE PROGRAM: INTRAVENOUS DRUG USE TREATMENT, STD, TB, AND HIV/AIDS SCREENING

National statistics show that more than 70 conditions requiring hospitalization, most notably cancer, heart diseases, and HIV/AIDS, have risk factors associated with substance abuse. One dollar of every five dollars Medicaid spends on hospital care is attributable to substance abuse (U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, 1997 Fact Sheet). The same report shows that injecting drug use is the primary model of transmission of HIV among women and is responsible for 71% of AIDS cases among women. The lifetime cost of taking care of one AIDS patient is approximately \$85,000. The U.S. SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES ADMINISTRATION estimates that over five million persons in the U.S. were in need of treatment for severe drug abuse problems in 1998. Almost 60% of these people, an estimated 2.9 million, have not received treatment for their addiction. The size of this treatment gap has remained relatively unchanged over the past eight years, ranging from 54% to 68% (CSAT by Fax, August 30, 2000, Vol. 5, Issue 1311.

As part of the Louisiana's State Demand Need Assessment Studies the Office for Addictive Disorders (OAD) collaborated with the Research Triangle Institute in North Carolina, and L.S.U. Medical Center in New Orleans, to publish an Integrated Population Estimates of Substance Abuse Treatment Needs Study, August 1999. This work was supported by the Center for Substance Abuse Treatment (CSAT). The study shows that 10.2% of Louisiana adults, or 318,857 persons, were found to be in need of substance abuse treatment. The region with the greatest number of persons needing services was Region 1 (Orleans, Plaquemines and St. Bernard parishes). The region with the fewest number of individuals needing treatment was Region 6 (Avoyelles, Catahoula, Concordia, Grant, LaSalle, Rapides and Vernon parishes).

Epidemiology

The <u>Community Epidemiology Work Group (CEWG)</u> is a national network of epidemiologists and researchers that meet twice a year to discuss current and emerging substance abuse problems. A CESAR² Report (September 4, 2000, Vol. 9, Issue 35] highlighting proceedings from the 48th CEWG meeting, held in Baltimore, Maryland, in June 2000 shows the following trends:

Ecstasy (MDMA) appears to be increasing in the 21 CEWG areas. Additional data (CESAR, September 18, 2000, vol. 9, Issue 37] indicates "The percentage of high school seniors reporting that Ecstasy was

¹ CSAT by Fax is a bi-weekly publication produced and distributed by facsimile under the Knowledge Application Program (KAP). US Department of Health and Human Services.

² CESAR by Fax is a weekly publication produced and distributed by facsimile under the Governor's Office of Crime Control & Prevention.



"fairly easy" or "very easy" to obtain increased from 22% in 1989 to 40% in 1999, according to the data from the <u>Monitoring the Future</u> high school survey. These findings support recent reports that Ecstasy, traditionally associated with clubs and rave parties, is becoming more acceptable to other mainstream populations.

Marijuana indicators, which have increased dramatically over the past decade, stabilized in 17 of the 21 CEWG areas. However, marijuana abuse remains a serious problem.

Methamphetamine use continues to decline since 1999 in the CEWG areas. Cocaine indicators continue to decrease or remain stable in the majority of the CEWG areas.

Key findings issued by the <u>Louisiana State Epidemiology Work Group (LAEWG)</u> in their May 1998 proceedings show a decline in admissions by primary drug of abuse across the ten parishes for cocaine, alcohol and methamphetamine. Increases in admissions were recorded for Marijuana, Heroin and "Other Drugs."

The State of Louisiana Communities that Care Youth Survey (CTC): Student Use of Alcohol, Cigarettes, Marijuana and Inhalants

According to a <u>Communities that Care Youth Survey</u> (6th, 8th, 10th, and 12th grades) published in May, 1999, the substances that are the most commonly used by Louisiana's students - alcohol, tobacco, marijuana and inhalants - are used at levels that are similar to current national levels.

Alcohol is the most widely used substance. The lifetime prevalence rate for alcohol rises from 28% in 6th grade to 79% in 7th grade. Combining all grade levels, slightly more than half (55%] of all students have used alcohol sometime in their lifetimes. Nearly one third (32%) of Louisiana students reported using alcohol in the past 30 days.

Tobacco (cigarettes and chewing tobacco) is the next most commonly used substance among Louisiana students. Lifetime prevalence of cigarette use in Louisiana ranges from 27% in the 6th grade to 33% in the 12th grade; 32% of students reported using cigarettes in the past 30 days. Overall, 49% of Louisiana students have used cigarettes sometime in their lifetime.

Marijuana use has risen over the last six years for middle and high school students. In their lifetime, about 22% of Louisiana students have used marijuana, with lifetime use rising from 4% in the 6th grade to 42% in the 12th grade. Thirty-day use of marijuana was 10% across all grades, with 2% of 6th graders reporting use in the past 30 days and 18% of 12th graders reporting use.



Intravenous Drug Users Treatment

OFFICE FOR ADDICTIVE DISORDERS' policy gives intravenous drug users (IDUs) statewide priority admission status to programs (contract and state) and treatment modalities. Block grant requirements mandate that IDUs be admitted to treatment programs within 14 days after request for admission, and be provided with interim services within 48 hours if comprehensive care cannot be made available upon initial contact, with a waiting period of no longer than 120 days. OAD offers outreach services statewide using the Indigenous or Behavioral Model, or other outreach models. Activities include: education, prevention, condom distribution, clean needle demonstrations, medical evaluations and referrals.

STD, TB, and HIV/AIDS Screening

In addition to treatment of addiction problems, OAD makes available, testing for sexually transmitted diseases (STD), tuberculosis (TB), and HIV (to each individual receiving treatment). Testing is offered, either directly or through arrangements with other public or nonprofit private entities, through a Qualified Service Organization Agreement (QSOA) and a Memorandum of Understanding (MOU) between the OFFICE OF PUBLIC HEALTH and OAD. This system includes the provision of the necessary supplies by the OFFICE OF PUBLIC HEALTH'S STD CONTROL, TB CONTROL, and HIV/AIDS PROGRAMS for on-site STD, TB, and HIV testing of OAD clients. Early intervention services include screening, testing and pre- and post-test counseling.

Individuals testing positive are referred to the OFFICE OF PUBLIC HEALTH Clinics for further evaluation and appropriate testing. Once a client is identified as an HIV patient in the OFFICE OF PUBLIC HEALTH system, he or she is referred to the local consortium and/or directly to a charity hospital outpatient clinic, under the auspices of the OFFICE OF PUBLIC HEALTH. Besides referrals to public agencies, clients can be referred to other HIV supportive services that are available in the community. OAD utilizes this referral network to access additional services for substance abuse clients diagnosed with HIV/AIDS. The Office has established a working relationship with the referral entities and is able to monitor the needs of clients who have been referred. OAD also provides ongoing counseling to its clients regarding HIV prevention and treatment, self-help groups, and information and referral services.

OAD participates on the Statewide HIV Community Planning Group (SCPG) and two subcommittees at the regional level: Nominations and Special Needs. The goals of the statewide group for SFY³ 2000 are 1) submit a plan of action to CDC for state prevention; 2) recruit new members for both committees; 3) identify at-risk areas within the region that need HIV prevention planning; and 4) identify at-risk populations to apply to the prevention plan. Groups identified for SFY 2000 are racial and ethnic minority groups, sexually active females, men who have sex with men and youth and substance abusers.

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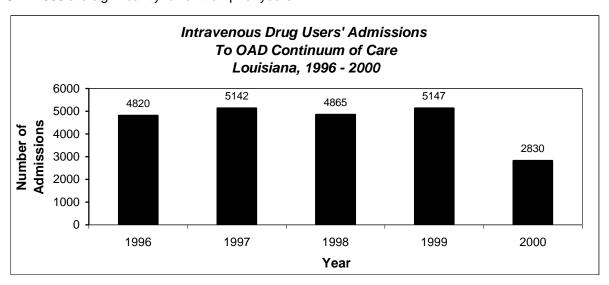
³ State Fiscal Year



Interventions utilized are street outreach, counseling and testing, and condom availability. The committees include individuals with expertise in education, substance abuse, health, and public health; special populations with representatives from each region (who generally represent at-risk communities); and representatives from the DEPARTMENT OF PUBLIC SAFETY AND CORRECTIONS, the DEPARTMENT OF EDUCATION, and the DEPARTMENT OF HEALTH AND HOSPITALS' OAD. The regional CPG meets monthly and the statewide committee meets quarterly.

1999-2001 Program Statistics Intravenous Drug Users (IDUs)

OAD Management Information System reports that there were 2,666 intravenous drug user (IDUs) admissions to the OAD continuum of care during State Fiscal Year (SFY) 2001, (9% of the total admissions), 2,830 during the year 2000 (9% of the total admissions) 5,147 during 1999 (17% of the total admissions), 4,865 during 1998 (18% of the total admissions), 5,142 admissions during SFY 1997 (20% of the total admissions) and 4,820 admissions for SFY 1996 (19% of the total admissions). Figures for SFY 2000 are significantly lower than prior years.



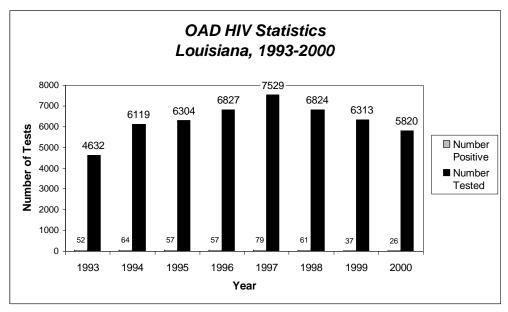
Source: Office for Addictive Disorders

HIV/AIDS

In SFY 1999 Louisiana had an incidence of 18 HIV cases per 100,000 population and, because of this, Louisiana is a designated state for the purposes of block grant expenditures for HIV services (minimum of 5% of the total award).

OPH's summary of statistics for SFY 2001 shows that 6,474 HIV tests were conducted at OAD sites. Of this population, 40 (<1%) tested positive. Calendar year 2000 showed that 5,820 HIV tests were conducted at OAD sites. Of this population, 26 tested positive (<1%). OAD sites performed

approximately 9.8% of the total HIV testing done in the state in 2000. During 1997, OPH tested 7,529 OAD clients for HIV and obtained 79 (1%) positive results.



Source: Office for Addictive Disorders

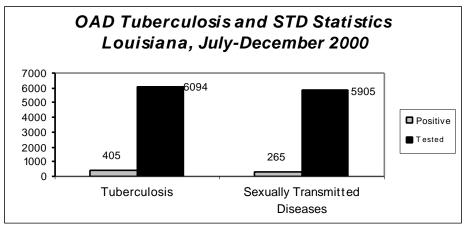
OPH data for the 1998 calendar year indicate that 6,824 OAD clients were tested for HIV, and 61 (1%) were found to be HIV positive. OPH data for calendar year 1999 show approximately 6,313 clients from OAD clinics were tested for HIV, with 37 (<1%) clients having positive test results. There have been no significant changes in positive results trends since 1992. OAD provided 5,054 services to HIV infected clients during SFY 2001.

Tuberculosis

For SFY 2001 10,438 OAD clients were tested for tuberculosis and 740 positive results were obtained. This represents 7% of clients tested (OAD Set Aside Quarterly Reports). OAD Management Information System reports 9,484 services provided to TB infected clients during SFY 2001.

STDs

For SFY 2001 10,784 OAD clients were tested for sexually transmitted diseases (STD) and 570 (5%) were found to be STD positive (OAD Quarterly Set Aside Reports). The OAD Management Information System reported that a total of 5,044 services were provided to STD infected clients for SFY 2000.



Source: Office for Addictive Disorders

F. STATEWIDE CHILD DEATH REVIEW PANEL

State legislation mandates a <u>Statewide Child Death Review Panel</u> composed of a multi-disciplinary group of professionals in the fields of medicine, social services and justice. The Panel mandate requires the review of records for all unexpected deaths of children under age fourteen. The Panel is to assure that proper investigative, follow-up, and prevention programs to limit or prevent such deaths are in place. The EMS/INJURY RESEARCH AND PREVENTION SECTION identifies cases by searching the OPH Health Vital Records electronic mortality file.

Reports

The legislatively mandated <u>Statewide Child Death Review Panel</u> presents an *Annual Report* to the Legislature, with statistical, analytic and consultative support from the EMS/INJURY RESEARCH AND PREVENTION SECTION.

G. Brain and Spinal Cord Injury Registry

The legislatively mandated <u>Traumatic Brain and Spinal Cord Injury Registry</u> is maintained within the EMS/INJURY RESEARCH AND PREVENTION SECTION. Injuries followed through the Registry are classified as "Reportable Conditions." The Injury Program works with the mandated reporters from hospitals in Louisiana to build this Registry. The INJURY RESEARCH AND PREVENTION PROGRAM further reviews death certificates so that fatal cases are not missed. Traumatic brain and spinal cord injuries can be exceptionally devastating and costly. Details surrounding the injury are extracted and used to provide additional information on leading causes, highest risk groups, and recognized special needs so that interventions and services can be identified. Examples of prevention programs generated from these data include an all-terrain vehicle safety program, prevention of falls from deer stands, safe tackling



practices for high school football players, and recommendations to make junior rodeo riding safer.

1999 Statistics

Please refer to the <u>Traumatic Brain Injury</u> section in "Chapter 2: Morbidity" for a graphic representation of the INJURY RESEARCH AND PREVENTION PROGRAM'S Traumatic Brain Injury data.

Reports

OPH's INJURY RESEARCH AND PREVENTION SECTION produces a variety of reports, many of which are available through the DHH OPH web site, describing these injuries.

H. INJURY SPECIFIC DEATHS DATABASE

The Injury Research and Prevention Section created and continues to maintain the <u>Injury Mortality</u> <u>Database</u> from vital records electronic data files dating back to 1986.

This special Database organizes death certificate information on all injury-related deaths in the State. This information is used to examine trends in the occurrence of specific injuries or groups of injuries, and to identify and track the injury experiences of different risk groups. It provides important data for planning and evaluation of interventions, as well as the identification of emerging problems.

Reports

The Injury Research and Prevention Section maintains this database and can generate specific tables, reports and analyses by cause of death, residency, and a variety of demographic factors upon request for individuals, communities, or agencies. Some mortality information is also available on the internet through the CDC's WISQUARS system.

I. BURN INJURIES

Hospitals are mandated by state legislation to report severe burn injuries to the Office of the State Fire Marshal to assist in the identification of arsonists who may have been injured while committing the crime. The Injury Research and Prevention Section entered into a partnership with the State Fire Marshal to provide a broader analysis of data that describes patterns of burn injuries in Louisiana. Aggregation of these data with burn injury death data will allow the Injury Research and Prevention Section to better describe the circumstances leading up to fatal and non-fatal burn injuries. Development of burn injury prevention initiatives can be based on these findings.



Reports

The Injury Research and Prevention Section maintains this database and can generate reports upon request.

J. LOUISIANA ADOLESCENT HEALTH INITIATIVE

There was a strong desire among policy makers at the DHH, OFFICE OF PUBLIC HEALTH to increase efforts to adequately address the complex social, emotional and medical needs of the under-served adolescent population. The result was the September 1995 launching of the Louisiana Adolescent Health Initiative (AHI). AHI facilitates a coordinated, multi-disciplinary approach to adolescent health care, disease prevention and health promotion in the state. The goal of the Initiative is to provide Louisiana adolescents with the opportunity to prosper in a healthy, nurturing and safe environment. The Initiative is reaching this goal by increasing coordination and collaboration between internal programs and external agencies, by infusing adolescent voices in planning and policy-making efforts of the state and by providing an infrastructure that enables local communities to more effectively and efficiently address adolescent health needs.

The collection of data and dissemination of information is an essential part of the Adolescent Health Initiative. Providing information on both adolescent health issues and on current adolescent health activities is a priority. The state public health office serves as a central repository for such information. The use of statewide teen health questionnaires and statewide adolescent focus groups, coupled with the collection of adolescent health statistics, provides parents, communities, politicians and policy makers with a clear picture of adolescent health in Louisiana.

Currently, there are many state and local projects that emphasize different aspects of adolescent health. Some focus on teenage pregnancy or teen parenting, while others focus on HIV/AIDS, tobacco control, conflict resolution, cardiovascular health, or on the maintenance of school-based health clinics, etc. The Initiative allows for the planning, development, implementation and evaluation of these activities in a coordinated, collaborative fashion. In addition, it broadens the scope of cooperation to include the DHH OFFICES OF MENTAL HEALTH and ADDICTIVE DISORDERS, the OFFICE OF YOUTH SERVICES, and others. Such team-building efforts are necessary to merge the work of all agencies working with the common goal to ensure health and happiness for all Louisiana's youth.

Results

Activities to date include:

 Produced and distributed the first edition of the LA Adolescent Data Book, which includes a statistical compilation of adolescent health indicator data

- Produced and distributed the 2000 LA Teen Pregnancy Prevention Directory, which includes a listing of statewide programs that provide counseling and medical services to help teens prevent pregnancy
- Produced and distributed the 2000 Louisiana Adolescent Health Fact Sheet, which presents an
 accurate description of the health status of Louisiana adolescents
- Planned and coordinated the 2000 Safe Summer Youth Rally and the 2000 Adolescent Pregnancy
 Prevention-Parent Summit
- Administered quarterly statewide Adolescent Health Initiative Steering Committee Meetings
- Increased coordination with both internal DHH-OPH programs, and external agencies involved in public health, public policy and social welfare
- Collaborated with other state and national adolescent projects (National Campaign to Prevent Teen Pregnancy)
- Provided technical assistance to local, statewide and national adolescent health coalitions that are performing comprehensive adolescent activities (Let's Talk Month Activities)
- Served as an Adolescent Specialist on many statewide Adolescent Task Forces
- Administered the Teen Talk 2000 Focus Group Project to nearly 300 Louisiana youth in all nine OPH administrative regions
- Gave AHI presentations at national (i.e., Healthy People 2010), statewide and local conferences
- Placed AHI highlights in four Louisiana newspapers and national newsletters

K. LAPRAMS

Overview

The Louisiana Pregnancy Risk Assessment Monitoring System (LaPRAMS) is an on-going, population-based surveillance system designed to identify and monitor selected maternal behaviors that occur before and during pregnancy and during a child's early infancy. It is a joint effort between the Office of Public Health and the Centers for Disease Control and Prevention (CDC). The CDC, OPH VITAL RECORDS REGISTRY and State Center for Health Statistics, and Tulane School of Public Health and Tropical Medicine provide technical assistance to LaPRAMS. The CDC, along with the OPH Family Planning and Maternal and Child Health programs, provide funding for the project.

<u>LaPRAMS</u> data are collected from a representative random sample of new mothers by means of mail surveys and telephone interviews. Louisiana women who have had a recent live birth are randomly selected to participate in <u>LaPRAMS</u>. Since data collection was initiated in 1997, 10,957 women have received the <u>LaPRAMS</u> questionnaire. In 1999, 3,553 women were selected to receive the questionnaire. Over 71% of the women selected in 1998 completed the survey for 1999 births (full year data). The



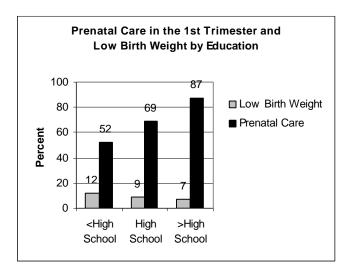
average response rate for 1998-1999 was approximately 71%. Since <u>LaPRAMS</u> is based on a representative sample, the data collected by this survey represents information that is generalizable to the whole state of Louisiana.

Information provided by <u>LaPRAMS</u> includes: medical and physical factors, socioeconomic status, prenatal maternal experiences and behaviors (cigarette smoking, alcohol use, and physical abuse), prenatal care counseling, use and barriers to prenatal care, content and quality of care, complications during pregnancy, birth control use before and after pregnancy, sources of prenatal care and payment of delivery, and postpartum maternal experiences and behaviors.

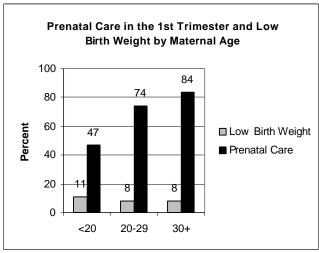
Results

The following are selected findings based on <u>LaPRAMS</u> 1999 data.

- **Low birth weight and intensive care:** Nine percent of births in Louisiana are low birth weight (below 2500 grams). The *Healthy People 2010* target is 5%. Fifty-six percent of low birth weight infants were admitted to an intensive care unit.
- Early initiation of prenatal care: Seventy-three percent of women reported initiation of prenatal care during the first trimester of their pregnancy. The Healthy People 2010 target for initiation of prenatal care in the first trimester is 90%. Socio-demographic factors associated with initiation of prenatal care in the first trimester are shown below.

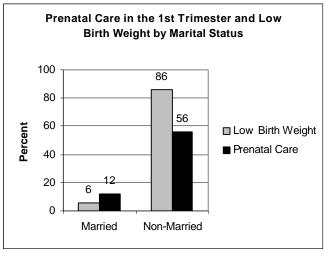


Source: Office of Public Health, LaPRAMS, 1999



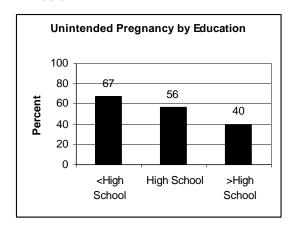
Source: Office of Public Health, LaPRAMS, 1999

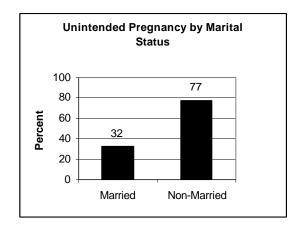




Source: Office of Public Health, LaPRAMS, 1999

- Unintended pregnancies: Fifty-two percent of women reported that their pregnancies were unintended. Unintended refers to the timing of the pregnancy, i.e. whether the woman desired the pregnancy to be at some time in the future or not at all. The Healthy People 2010 target for unintended pregnancies is 30%. Socio-demographic factors associated with unintended pregnancies are shown below.
- Birth control use: Over 25% of women surveyed were using birth control when they became pregnant. Seventy-five percent of women reported that they were not using birth control when they became pregnant. Reasons for not using birth control include wanting to become pregnant, the side effects of the birth control methods, not anticipating sex, thinking that they were infertile and just not wanting to use birth control. Socio-demographic factors associated with birth control use are shown below.

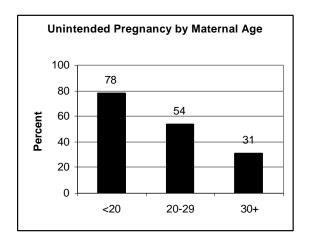




Source: Office of Public Health, LaPRAMS,1999

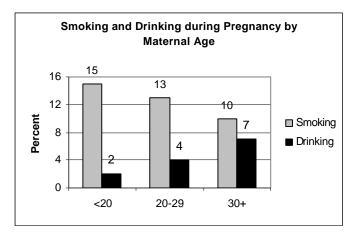
Source: Office of Public Health, LaPRAMS,1999

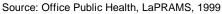


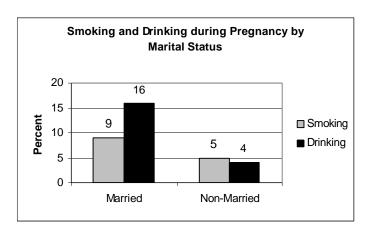


Source: Office of Public Health, LaPRAMS, 1999

- Cigarette smoking before, during, and after pregnancy: In the three months prior to pregnancy, 24% of women reported that they had smoked. The percentage decreased during pregnancy to 12% but increased to 19% at 3-6 months after delivery, a level slightly lower than the pre-pregnancy rate. The Healthy People 2010 target for women, in general, is 15% and is 1% for pregnant women.
- Alcohol consumption before and during pregnancy: Forty-four percent of women reported that
 they drank alcohol during the three months before pregnancy, and 5% reported that they drank
 alcohol during the last trimester of their pregnancy. The Healthy People 2010 target for pregnant
 women is 6%.

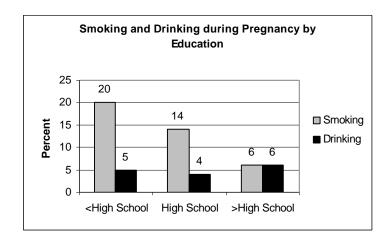






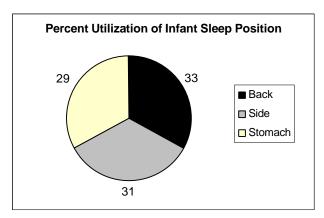
Source: Office Public Health, LaPRAMS, 1999





Source: Office of Public Health, LaPRAMS,1999

- *Infant sleep position*: Among women surveyed, 33% placed the baby on its back, 31% placed the baby on its side, and 29% placed the baby on its stomach. Research shows that placing a baby on the back to sleep reduces the risk of Sudden Infant Death Syndrome (SIDS).
- **WIC participation**: Fifty-six percent of women reported being on WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children) during their pregnancy.



Source: Office of Public Health, LaPRAMS,1999

Breastfeeding: Forty-four percent of women breastfed their infants beyond one week. The number of those who breastfed beyond one month dropped to 35%. The Healthy People 2010 target for breastfeeding during the early postpartum period is 75%. Socio-economic factors, such as maternal age, maternal education, marital status and Medicaid status, were associated with breastfeeding beyond the first week. Mothers over 30 years of age, mothers with more than a high school education and married mothers were most likely to breastfeed their infants beyond the first week.



Among mothers less than 20 years of age, 23% breastfed their infants. Twenty percent of mothers with less than a high school education breastfed beyond the first week. Twenty-four percent of unmarried mothers breastfed their infants.

Data from <u>LaPRAMS</u> will be used to supplement information from vital records and to generate information for planning and assessing perinatal health programs around the state. Findings from the data will also be used to develop programs designed to identify high-risk pregnancies. In addition, <u>LaPRAMS</u> data will enhance the understanding of maternal behaviors and the relationship between these behaviors and adverse pregnancy outcomes, such as low birthweight and infant mortality.

L. ORAL HEALTH ASSESSMENT

The effects of poor oral health can greatly impact the overall health of an individual. Poor oral health in children can have far-reaching results, including infection, absence from school, and malnutrition. The Oral Health Program of the Office of Public Health, Maternal and Child Health Program, is charged with monitoring the oral health status of Louisiana's children.

Comprehensive Oral Health Needs Assessment

The Oral Health Program has several ongoing initiatives, one of which is a <u>Comprehensive Oral Health Needs Assessment</u> among Louisiana's children. This needs assessment uses data for successive years, gathered from two sources: survey data collected by the Oral Health Program and dental Medicaid claims data.

A study in which school health nurses screened third-grade children throughout the state showed that 38% of the children had untreated caries. The prevalence of dental sealants among the children was 22%, well below the national objective of 50%. Of the 1,435 children screened, 532 (37%) required referral to a dentist, strongly demonstrating the need of this population for dental care.

A study of Louisiana Medicaid data by the Centers for Disease Control, published in the September 3, 1999, issue of the *Morbidity and Mortality Weekly Report*, showed that the average treatment costs for Medicaid-eligible children living in non-fluoridated areas were twice as high as the average treatment costs for Medicaid-eligible children living in fluoridated areas. The study also showed that Medicaid-eligible children living in non-fluoridated areas were three times as likely as Medicaid-eligible children living in fluoridated areas to receive dental treatment in a hospital operating room.

The number of water systems adjusting fluoride content decreased from 73 in 1986 to 45 in 1998, and the percentage of the population of the state receiving optimally-fluoridated water decreased from 54% in



1986 to only 49% in 1998. This trend is away from the national objective of 75% of the population receiving optimally-fluoridated water.

M. Environmental Epidemiology and Toxicology

Louisiana ranks among the top states in the United States in the per capita production of hazardous wastes and in the amount of chemicals released into its water, air, and soil.

The Office of Public Health, Section of Environmental Epidemiology and Toxicology (SEET) promotes the reduction in disease morbidity and mortality related to human exposure to chemical contamination within the state of Louisiana. SEET oversees and responds to public health needs with regard to environmental health issues.

In recent years, there has been an increase in public awareness of the acute and chronic health effects of chemicals in the environment and a greater demand for SEET to investigate these effects. SEET attempts to address residents' concerns by:

- Identifying toxic chemicals in the environment that are likely to cause health effects
- Evaluating the extent of human exposure to these chemicals and the adverse health effects caused by these exposures
- Making recommendations for the prevention/reduction of exposure to toxic chemicals and the adverse health effects caused by these exposures
- Promoting a better public understanding of the health effects of chemicals in the environment and of the ways to prevent exposure.

Activities conducted by SEET include:

Epidemiological and Toxicological Investigations

- Public Health Assessments and Consultations (Toxic Site Assessments)
- Pesticide Exposures
- Disease Cluster Response
- Cancer Mortality Trend Analysis
- Mercury Blood Screening

Environmental Health Advisories (See "Chapter IV: Preventive Health Outreach, Service and Education Programs")

Mercury in Fish

Environmental Health Education (See "Chapter IV: Preventive Health Outreach, Service and Education Programs")

- Health Effects Related to Pesticide Exposure
- Mercury in Fish

- Health Professional Education
- Public Health Response for Chemical Spills

The projects described below in more detail are representative of those coordinated by SEET.

Public Health Assessments and Consultations

Health assessors complete extensive <u>Public Health Assessments</u> or shorter <u>Health Consultations</u> for Superfund and other hazardous waste sites in Louisiana. The <u>Public Health Assessment</u> is an evaluation of all relevant environmental information, health outcome data, and community concerns around a hazardous waste site. It identifies populations potentially at risk and offers recommendations to mitigate exposures. A <u>Health Consultation</u> is a response to a request for information and provides advice on specific public health issues that could occur as a result of human exposure to hazardous materials. Based on the above documents, health studies, environmental remediation, health education, exposure investigation, or further research may be recommended.

As of November 7, 2001, there are currently 128 confirmed and 342 potential inactive and abandoned hazardous waste sites in Louisiana, according to the DEPARTMENT OF ENVIRONMENTAL QUALITY. SEET is evaluating the public health impact of six of these sites, and the potential for further involvement and/or work with more of these sites is very likely. Details concerning these activities can be obtained from SEET. SEET also (1) develops fact sheets and other handouts to help inform the local community about health issues around hazardous waste sites, (2) responds to an individual's request for toxicological and medical information, and (3) makes presentations in public meetings and availability sessions around the state.

Central Wood Preserving (CWP)

The 12-acre CWP site is a former wood treating facility located in the city of Slaughter, East Feliciana Parish, Louisiana. The site operated from 1950 to 1991 and used creosote or Wolman Wood Preservative, a solution of cooper, chromium, and arsenic salts, as wood preserving agents. The CWP site contaminants of concern include arsenic, chromium, copper, and polycyclic aromatic hydrocarbons (PAHs). This site was placed on the Environmental Protection Agencies (EPA) National Priorities List (NPL) in 1999.

The CWP site is bordered by wetlands to the north and south, residential property to the northwest and northeast, and a creek and associated wetland to the east- southeast. Surface waters from the former facility operations area drain into these wetlands. Currently, soil exposure is the primary on-site pathway of concern due to the public accessibility to a portion of the site and the known elevated levels of arsenic, chromium, copper, and PAHs. The levels of contaminants present in the on-site soils at the CWP site

represent a public health hazard. Soil and sediment exposure are also the primary off-site pathways of concern due to their elevated levels of arsenic.

In July 2000, SEET staff administered a needs assessment to approximately ten homes adjacent to the CWP site. The heads-of-household were asked about their health problems and about the health conditions of other household members. There were 30 health conditions reported by adults (over 18 years of age). No health problems were reported by 73.3% of the adult population. Health concerns reported for children were allergies, anemia, and chicken pox. The heads-of-household were also asked about their other environmental health concerns. Seven individuals reported having no concerns. The other concern expressed was allergies. Follow-up with the community will be in the form of a mailing of the Executive Summary of the Needs Assessment to the ten households.

In late 2000, SEET attended a meeting where the Environmental Protection Agency explained the Proposed Plan for clean up at the Central Wood Preserving site. SEET also completed the initial health assessment. In February 2001, SEET mailed a summary of the CWP needs assessment to the participants in the survey. Presently, SEET is working on the final version of the Public Health Assessment for CWP. It should be released by summer 2002.

Pesticide Exposures

Health-Related Pesticide Incident Report Program

The Health-Related Pesticide Incident Report (HRPIR) Program is a complaint-based, statewide program designed to investigate and evaluate adverse health effects related to acute pesticide exposure. The Louisiana Department of Agriculture and Forestry (LDAF) and SEET jointly investigate complaints. Investigations involve the collection and review of environmental and health data relevant to the exposure incident. Data are reviewed to determine short-term and long-term health effects related to the pesticide exposure. A written summary of the findings is provided to the complainant.

Cases are classified using criteria that consider the plausibility of reported health effects based on the known toxicology of the pesticide(s) involved.

Case Classification Categories:

- Confirmed—Health effects confirmed as being related to pesticide exposure.
- Likely—Health effects likely related to pesticide exposure.
- Possible—Health effects possibly related to pesticide exposure.
- Unlikely—Health effects unlikely related to pesticide exposure.
- Not Pesticide-Related—Health effects not related to pesticide exposure, or there is insufficient evidence to determine the cause of health effects.



No Symptoms Reported—No symptoms were reported related to pesticide exposure.

2000 - 2001 Health-Related Pesticide Incident Reports

There were 27 health-related pesticide incidents involving 37 cases reported to LDAF and SEET from 0ctober 2000 through September 2001. As of January 17, 2002, 22 incidents involving 30 cases have been investigated and closed. Classification of the 30 cases include 2 'confirmed,' 9 'likely,' 6 'possible,' 1 'unlikely,' 11 'not pesticide-related,' and 1 'no symptoms reported.'

Louisiana's Registry of Pesticide Hypersensitive Individuals

In 1989, the Louisiana Department of Agriculture and Forestry and SEET established the Registry of Pesticide Hypersensitive Individuals. The registry's purpose is to enable hypersensitive individuals to receive prior notification of pesticide applications in the vicinity of their homes. With prior notification, individuals can take necessary precautions to protect themselves from inadvertent pesticide exposure. There is no charge for inclusion on the registry although a physician must certify that the registrant is hypersensitive to pesticides.

The registry, which is updated annually, is provided to all licensed applicators and pest control operators (PCOs). Applicators and PCOs are requested to notify registrants prior to making a pesticide application to a property within one hundred feet or adjacent to the registrant's property. Notification by applicators and PCOs is voluntary, and there is no penalty for non-compliance.

In 1999, SEET conducted a telephone survey of all registrants to evaluate their satisfaction with the registry. Of the 62 households on the registry, 37 (60%) participated in the survey. Results indicate that 62% of the surveyed registrants live in a rural area, of which 49% live on a farm. Forty-one percent of the households were notified every time there was a pesticide application within 100 feet of their property, 32% were sometimes notified, and 27% were never notified.

Overall, 62% of the surveyed registrants were satisfied with the registry, although 76% of the registrants believed that 100 feet was not a protective enough distance. All surveyed registrants stated that they would be willing to pay a small fee in exchange for mandatory notification by applicators.

Disease Cluster Response

SEET investigates citizens' reports of environmentally related disease clusters (such as cancer, and reproductive, neurological, and respiratory diseases) that may require regulatory or health interventions.

Coteau Childhood Leukemia

Public concern about childhood leukemia in the community of Coteau (Iberia Parish) was brought to the attention of SEET in May 1996. SEET has assessed the occurrence of childhood leukemia in the area of Coteau with the assistance of the LOUISIANA TUMOR REGISTRY. It has been determined that the incidence of childhood leukemia in Coteau is unusual, both spatially and temporally.

SEET began a population-based case-control study of childhood leukemia in a four-parish area consisting of Iberia, Lafayette, St. Martin, and Vermilion parishes. These four parishes were selected as the study area to provide a larger number of cases and to increase the probability of including children from neighboring areas who may have spent time in Coteau even though they did not live there.

A case in the OPH study is defined as a child who was diagnosed with leukemia between January 1, 1983 and December 31, 1997 while living in Lafayette, Iberia, St. Martin, or Vermilion Parish. The child must have been born in one of the four parishes and must have been less than 15 years old at the time the leukemia was diagnosed. Information on children with leukemia has been obtained from the LOUISIANA TUMOR REGISTRY and the ACADIANA TUMOR REGISTRY. A total of 31 known cases is being investigated by SEET in the four-parish area. The parents of all 31 cases and respective controls have been interviewed. SEET is in the process of evaluating interview responses in order to prepare a final report.

A detailed survey instrument (questionnaire) was developed by SEET to identify risk factors associated with childhood leukemia. A qualified interviewer was hired from the Lafayette area to conduct all interviews with the parents of cases and controls.

Cancer Mortality Trend Analysis

There has been concern for some time about whether industries along the Mississippi River between Baton Rouge and the Gulf of Mexico contribute to elevated lung cancer rates in the area. SEET has recently completed a trend analysis of the Lower Mississippi River corridor to provide more accurate information to address this concern. Cancer rates, demographic factors, and industrial development have been tracked over 30 years, from the 1960s to the 1990s. Analysis of the data revealed that most of the average annual age-adjusted mortality rates (1960-1993) are nearly equal for the urban portion of the study area and the study area as a whole (the Lower Mississippi River corridor). This was expected since the urban area had most of the population base (80%) of the entire eleven-parish region. There were no statistically significant excesses or deficits of cancer deaths in the urban area as compared with the entire study area. However, lung cancer death rates for black males and white females in the urban area were higher than, but not significantly different from, the entire region. Most of the average annual age-adjusted mortality rates were nearly equal for the rural region when compared to the entire study area (1960-1993). Also, in the rural region, stomach cancer was significantly elevated in black males and lung cancer death rates for white males were higher than, but not significantly different from, the entire region.



According to information obtained for the census years 1960, 1970, 1980, and 1990, more than 80% of the population in the study area has lived in the area since the 1960s, and more than 60% of that population is white. The black population in the study area has declined in rural areas and grown in urban areas. Median family income in the study area increased from \$4,720 in 1960 to \$29,512 in 1990. Since 1970, median family income increased by more than \$10,000.

Industrial Mapping

The industries in the Lower Mississippi River corridor are distributed into twelve clusters (three or more industries in each cluster) spread among seven of the eleven parishes. In the early 1950s there were 15 industries in the corridor; by 1994, there were 92. Manufacturing industries in the area with over ten employees were categorized according to the potential cancer risk they posed. Between 1988 and 1994, the number of industries emitting known human carcinogens dropped from 42 to 36.

Health Professional Education

SEET conducts <u>Health Professional Education</u> as part of its educational activities. SEET targets physicians and other health professionals located near Superfund and proposed Superfund sites to receive case studies from the AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY (ATSDR). Information provided focuses on site contaminants, health effects from exposure, and clinical descriptions of the diagnosis and management of cases of chemical exposure.

Since 1996, SEET has disseminated ATSDR (AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY) Case Studies to over 4,000 Louisiana physicians in 20 parishes. The most recent mail-out occurred in February of 1998 when SEET distributed ATSDR Case Studies entitled "Mercury Toxicity" and "Taking Exposure History" to 750 physicians in ten parishes.

Mercury Blood Screening

In 1998, 313 individuals from selected parishes in Louisiana participated in a blood mercury screening. Ninety-eight percent of the study participants were within an expected range of mercury blood levels. The remaining two percent of participants exhibited slightly elevated mercury levels and were advised to decrease fish consumption.

The outcome of this investigation is a health risk assessment being presently conducted in partnership with the Tulane University School of Public Health and Tropical Medicine. This study will assess the exposure status of subsistence fishermen and their families as it relates to blood mercury levels.



N. VITAL STATISTICS

Vital statistics data provide a body of information that serves as the foundation for monitoring the health of Louisiana's residents. These data are collected via birth, death, fetal death, abortion, marriage, and divorce certificates. Collection and processing of vital statistics information is the responsibility of the VITAL RECORDS REGISTRY, OFFICE OF PUBLIC HEALTH.

A large number of health status indicators rely on vital statistics data. These indicators include infant death rates, numbers of low birthweight infants, percentage of mothers lacking adequate prenatal care, teen birth rates, homicide and suicide rates, rates of death from AIDS and motor vehicle injuries, and many others. Vital statistics data are used in both the public and the private sectors to identify health needs in the population and to target effective health interventions. Vital statistics health status indicators also are an important component in measuring achievement of Centers for Disease Control Healthy People 2000 and 2010 objectives.

The role of the STATE CENTER FOR HEALTH STATISTICS is to analyze vital statistics data and distribute findings to government programs, community organizations, universities, and interested members of the general public. The Center accomplishes this through publication of the annual *Louisiana Vital Statistics Report*, and through response to ad hoc requests for data and information. The Center also is responsible for compilation of information from DEPARTMENT OF HEALTH AND HOSPITALS programs to create the legislatively mandated annual *Louisiana Health Report Card*.

2000 Statistics

Please refer to "Chapter I: Population and Vital Statistics."

Reports

Reports and data tables published by the STATE CENTER FOR HEALTH STATISTICS, including the annual Louisiana Health Report Card, Louisiana Vital Statistics Report, and the Louisiana Vital Statistics Overview, can be viewed and downloaded by the public at our Internet website (please refer to "Contact Information" at the end of this publication). The STATE CENTER FOR HEALTH STATISTICS also maintains databases of births, deaths, fetal deaths, abortions, marriages, and divorces, which it uses to respond to data requests from communities, agencies, and the general public through generation of ad hoc reports and analyses.



O. STATE HEALTH CARE DATA CLEARINGHOUSE

Health Assessment Programs

Act 622 of the 1997 Regular Legislative Session defined the STATE HEALTH CARE DATA CLEARINGHOUSE as the agency responsible for the collection of health care and health industry-related data. Act 622 charges the STATE HEALTH CARE DATA CLEARINGHOUSE with responsibility for creating population-based health care data registries that will offer Louisiana and its health care providers their first opportunity to plan and operate systematic intervention strategies that address the antecedents of death.

In prioritizing the mandates of the Health Care Data Clearinghouse, the Office of Public Health considered the various health information data streams already in existence and the data collection experiences of some 36 other states, and determined that Louisiana would benefit most by focusing initial data collection efforts on hospital inpatient discharge data. In addition to the inpatient discharge database, the State Health Care Data Clearinghouse is also planning to work with hospitals and other facilities across the state to develop a statewide hospital emergency room data system and other data sets to provide an even more complete picture of Louisiana health, and to address the urgent concerns of the increasing threat of bioterrorism.

Louisiana Hospital Inpatient Discharge Database (LAHIDD)

Many areas in Louisiana are experiencing rising health care costs and shortages of health professionals, making it essential that patients, health care professionals, hospitals, and third-party payers have information needed to determine appropriate and efficient use of health services, and accurate evaluation of needs and usage. This requires an understanding of patterns and trends in the availability, utilization, and costs of health care services, and the underlying patterns of disease that necessitate these services.

The <u>Louisiana Hospital Inpatient Discharge Database (LAHIDD)</u> holds the information base needed to make these determinations. The <u>LAHIDD</u> is a data registry containing inpatient discharge data submitted to the Office of Public Health by hospitals in Louisiana. The registry contains discharge data dating back to January 1, 1998. As the state's only comprehensive, population-based repository of hospital inpatient data, <u>LAHIDD</u> contains information needed to measure and evaluate illness and cost trends in the state, i.e., information on diagnoses, procedures performed, and the costs of those procedures. Until the creation of this database, this information could be estimated only for selected illnesses through surveys that included only subsets of the state's population.

For the most part, the data sent by hospitals to the registry are a natural by-product of hospital billing activity and are already widely available in a reasonably standard electronic format. The collection of these data place the smallest additional burden on the state's medical care providers, while speaking

directly to the legislatively recognized need to understand "patterns and trends in the availability, use, and charges for medical services."

Receipt of the thirteenth series of data submissions from hospitals (discharges occurring from July to September 2001) is in progress. Two hundred and ten licensed hospitals housing 26,302 beds participate in submission of data to the STATE HEALTH CARE DATA CLEARINGHOUSE.

Activities to date

Prior to fall 2000, <u>LAHIDD</u> activities focused on creating the organizational infrastructure needed to assure two-way communication and an easy flow of data from hospitals to the STATE HEALTH CARE DATA CLEARINGHOUSE. These activities included:

- providing information to hospitals regarding regulations and submittal procedures
- receiving scheduled data submissions
- performing preliminary data error checks
- notifying hospitals when excessive numbers of data errors were found in these preliminary checks Prior to fall 2001, progress was made in the development of the technologic infrastructure needed to house the database and facilitate access to the data. This progress includes:
- collaborating with the Office of Public Health Management Information Systems Section to
 - complete the software structure needed to construct the LAHIDD database
 - load the data from January 1998 through June 2000 into the database structure
 - identify software tools needed to (1) improve the speed and accuracy of data loading and (2) enable de-duplication and logical error checking both of which are required before data are available for analysis
- collaborating with the OFFICE OF PUBLIC HEALTH MANAGEMENT INFORMATION SYSTEMS SECTION (for technical expertise) and Cardiovascular Health Core Capacity Program (for financing) to purchase
 - a hardware platform with the capacity to hold and backup the LAHIDD database
 - a software tool that will enable internet-based data reporting
- developing the following software tools, which were distributed to hospitals in Spring 2001:
 - a data entry tool to be used by hospitals that currently lack the capability to submit data electronically
 - a data quality assurance tool that will enable hospitals to perform preliminary data error checks before submitting data to LAHIDD
- determining the content and format of hard copy and Internet-based reports to be distributed to submitting hospitals

In the past six months, focus of work is on data edit and logic check. The progress includes:

- collaborating with the Office of Public Health Management Information Systems Section to

- Load the data from July 2000 through December 2000 into the database. Currently, there are more than 1,460,000 in the database
- Define data edit and logic check rules, implement the rules to clean the data
- Collaborating with Office of Public Health programs to establish data access procedures that will assure maintenance of legislatively-mandated confidentiality restrictions
- Producing the first Louisiana Hospital Inpatient Discharge Database report for the 2002 Regular Legislative Session